I(P)GS-L6424M-XSFP

24x GigaT + 4x1G/2.5G/10G SFP L2+ Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring; DC/LDC/HV/AC input models

- *High-density 24xGiga + 4x1G/2.5G/10G SFP L2 + managed (PoE) Ethernet switch, total 28 ports*
- *Auto-sensing triple speed1G/2.5G/10G SFP+ Uplink Cage*
- *Support IEEE802.3at/af up to 30W per port (PoE model)*
- *Support dual power redundancy AC&DC*
- *PoE management incl. Detection and Scheduling (PoE model)*
- *Support PXE to verify switch firmware with the latest or certain version on server*
- *Optional L3Lite/L3* to be upgradable*
- *Enhanced G.8032 ring protection < 20ms for single ring. Supports enhanced mode and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 8 MSTI /RSTP; support MRP ring*
- *Miss-wiring avoidance & node failure protection*
- *User friendly UI, including auto topology drawing and DDM threshold monitoring with dB values***; Complete CLI*
- *Support LACP link aggregation, IGMP v3/router port, MLD snooping, DHCP server & DHCP Option82, DHCP Snooping; Port based DHCP distribution, Mac based DHCP server, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3, TACACS+, QinQ*
- *Protocol based VLAN; IPv4 Subnet based VLAN*
- *Enhanced Environmental Monitoring for temp., actual input voltage, current or total power load*
- *Support USB slot for upload/download the firmware*
- *Various dual input model selections: DC/LDC/HV/AC*
- *Fan-less industrial design; -40~75C operation temperate (-E model)*
- *DNV Type** Approved for Ships, Craft and Off-shore Platforms*



OVERVIEW

Lantech I(P)GS-L6424M-XSFP is a high performance L2+ (All Gigabit) modular Ethernet switch with 24port Gigabit + 4x1G/2.5G/10G SFP (total 28ports) (w/24 PoE 802.3af/at ports) which provides L2+ wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring. The QoS, advanced security including INGRESS ACL L2/L3, TACACS+, SSH v2/SSL and subnet VLAN, protocol VLAN and Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port are supported and also required in large network. It also supports 10K Jumbo frames.

Up to 24 PoE at/af ports w/advanced PoE management

Compliant with 802.3af/at standard, the Lantech I(P)GS-L6424M-XSFP being able to feed each PoE port up to 30 Watt. Lantech I(P)GS-L6424M-XSFP supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD hangs then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Each PoE port can be enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Miss-wiring avoidance, Node failure protection, Loop protection

The I(P)GS-L6424M-XSFP also embedded several features for stronger and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech I(P)GS-L6424M-XSFP being able to alert with the LED indicator and disable ring automatically. Node failure protection ensures the switches in a ring to survive after power breakout is back. The status can be shown in NMS

when each switch is back. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

Enhanced Storm control

Storm control prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces and the detection is more precise and reaction is more efficient.

Optional L3Lite/L3* to be upgradable

Lantech OS3 is optional upgradable to L3 Lite for future expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing.

Support PXE to verify switch firmware with the latest or certain version

The switch can check its firmware version during booting time via PXE protocol. If switch finds any newer version, it will upload automatically.

QoS by VLAN for legacy device

QoS by VLAN can allow switch to tag QoS by VLAN regardless the devices acknowledge QoS or not in which greatly enhance the bandwidth management in a network.

QinQ, QoS and GVRP supported

It supports the QinQ, QoS and GVRP for large VLAN segmentation.

DHCP option 82 & Port based, Mac based DHCP, Option66, DHCP Snooping, IPv6 DHCP server

DHCP server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. DHCP Snooping is supported. For the ending device, which need to download file from TFTP server, DHCP Option66 server can offer IP address of TFTP server to DHCP client. Basic IPv6 DHCP service can be supported.

User friendly GUI, Auto topology drawing, FX dB value

The user-friendly UI, innovative auto topology drawing and topology demo makes I(P)GS-L6424M-XSFP much easier to get hands-on. The I(P)GS-L6424M-XSFP supports DMI interface that can correspond with DDM SFPs (Digital diagnostic monitor) to display the five parameters in Lantech's UI, including optical output power, input power, temperature, laser bias current and transceiver supply voltage***. The TX power/RX power raw data is automatically converted to dB values for installer, making it easier to calculate the fiber distance. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 8 MSTI MSTP; MRP ring

Lantech I(P)GS-L6424M-XSFP-2P features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology protection covering multicast packets. It also supports various ring topologies that covers enhanced ring and basic ring by easy setup than others. It supports MSTP that allows each spanning tree for each VLAN for redundant links with 8 MSTI.

MRP (Media Redundancy Protocol) can be supported for industrial automation networks. GVRP can be supported for large VLAN segmentation.

IGMPv3, GMRP, router port, MLD Snooping, static multicast forwarding and multicast Ring protection

The unique multicast protection under enhanced G.8032 ring can offer immediate self-recovery instead of waiting for IGMP table timeout. It also supports IGMPv3, GMRP and router port. MLD snooping and static multicast forwarding binding by ports for video surveillance application.

802.1X security by MAC address

MAC-based port authentication is an alternative approach to 802.1x for authenticating hosts connected to a port. By authenticating based on the host's source MAC address, the host is not required to run a user for the 802.1x protocol. The RADIUS server that performs the authentication will inform the switch if this MAC can be registered in the MAC address table of switch.

Editable configuration file; USB port for upload/download configuration

The configuration file of Lantech I(P)GS-L6424M-XSFP can be exported and edited with word processor for the other switches' configuration with ease. The factory reset button can restore the setting back to factory default and built-in watchdog design can automatically reboot the switch when CPU is found dead. I(P)GS-L6424M-XSFP also supports dual image firmware function.

The built-in USB slot can upload/download the firmware through USB dongle for switch replacement.

Event log & message

In case of event, the I(P)GS-L6424M-XSFP being able to send an email to pre-defined addresses as well as SNMP Traps out immediately.

Enhanced environmental monitoring for switch inside information

The enhanced environmental monitoring can detect switch real overall temperature, (total PoE load), voltage and current where can send the SNMP traps and email alert when abnormal.

Dual power DC/LDC/HV/AC inputs and dedicated PoE power source input

Lantech I(P)GS-L6424M-XSFP chassis and modules are designed for easy maintenance and installation; It also supports dual DC/LDC power supplies (DC12~56V/ isolated 36~75VDC), dual HV (isolated 85~264VAC/120~370VDC) or dual AC (85~264VAC) input to increase the network reliability. It has independent PoE power source input by terminal block for connecting DC 48V PoE power source. (IPGS-L6424M-XSFP)

Industrial hardened design with high EFT/SURGE and ESD CONTACT protection; DNV-Type** Approval

Lantech I(P)GS-L6424M-XSFP features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control. Featured with relay contact alarm function, the I(P)GS-L6424M-XSFP being able to connect with alarm system in case of power failure or port disconnection. The I(P)GS-L6424M-XSFP also provides 2000V EFT/SURGE and 6000V ESD CONTACT protection, which can reduce unstable situation caused by power line and Ethernet.
Lantech DNV-Type** Approval I(P)GS-L6424M-XSFP model

meets with the most critical test criteria in DNV Type test directives consisting of MED (Marine Equipment Directive), EMC (Electromagnetic Compatibility Directive) in which vibration, high voltage, compass safe distance, humidity etc.

It is the best solution for Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory applications. The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

are conducted to ensure the switch sustaining the harsh on-board environments often founded in Ships, Crafts and Offshore platforms.

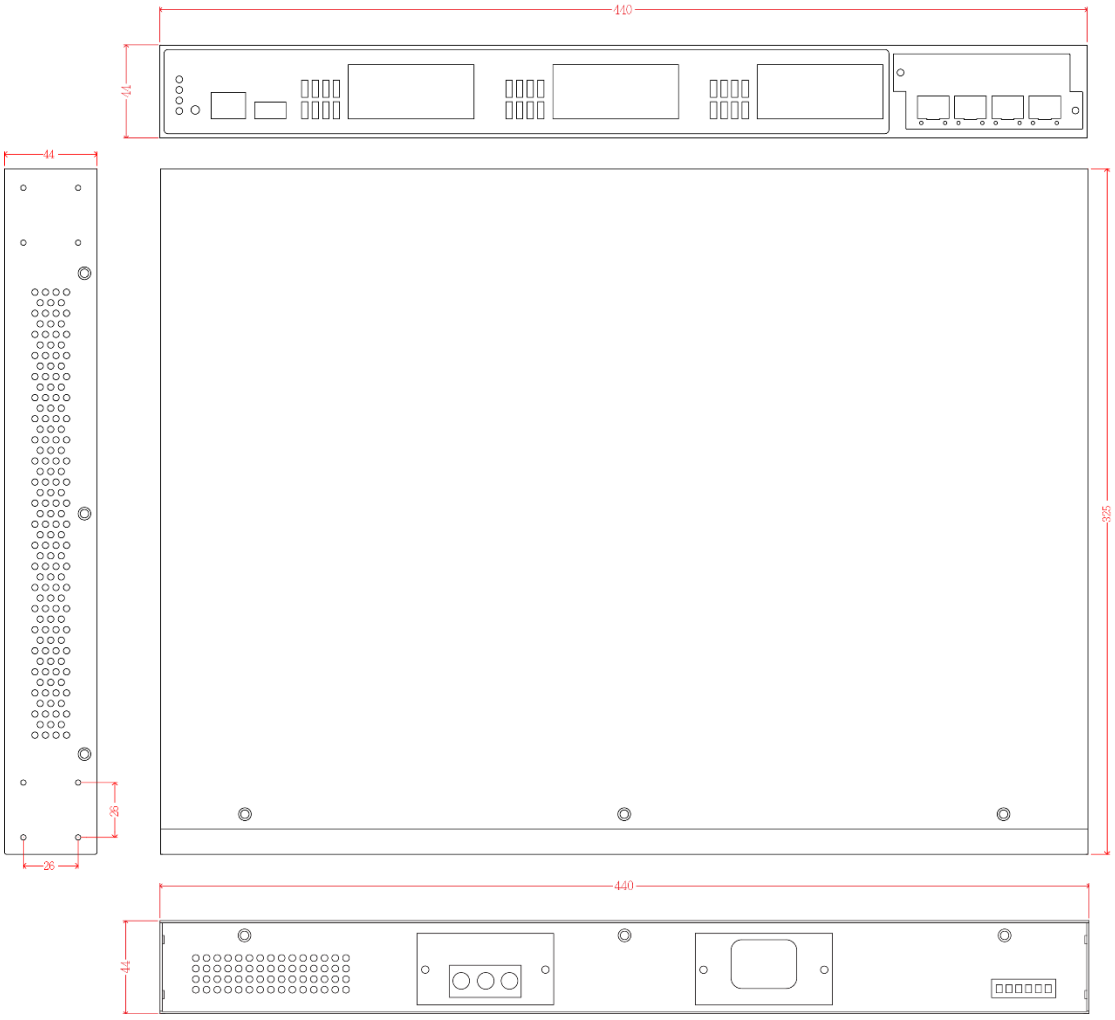
FEATURES & BENEFITS

- **System Interface/Performance**
  - *24 x Gigabit Copper PoE at/af + 4x1G/2.5G/10G SFP+*
  - *Total 28 ports*
  - *16K MAC Address Table*
  - *Backplane : 128Gbps*
  - *Dual LDC Power Supplies for isolated 1600V DC(36V~75V)*
  - *Dual HV Power Conversions for isolated 3000V (85V~264VAC/120V~370VDC)*
  - *Dual DC power supply terminal block for non-isolated power DC(12V~56V)*
  - *Dual AC power input (AC 85~264VAC)*
  - *Terminal block for PoE power source (DC48V) from seperate PoE power supply (IPGS-L6424M-XSFP)*
  - *Various modules available incl. 100M/1000M SFP ; Gigabit T;PoE at/af Giga T(up to 30W@);*
  - *Auto-sensing triple speed 1G/2.5G/10G SFP+ Uplink cage*
  - *Fanless design*
  - -20°C~60°C / -4°F~140°F (Standard model)
  - -40°C~75°C / -40°F~167°F(-E model)
- **Embedded 24 PoE ports IEEE802.3af/at function to feed power up to 30W@ for active mode operation (IPGS-L6424M-XSFP)**
- **Dedicate 48V dual input for PoE budget 720W from separate PoE power supply**
- **PoE management including PoE detection and scheduling for PD (power devices) (IPGS-L6424M-XSFP)**
- **Back-plane (Switching Fabric): 128Gbps**
- **16K MAC address table**
- **DDM to support SFP diagnostic function*****
  - *Automatically convert the raw data into dB values for TX power/RX power, making it easier to measure the fiber distance*
- **10KB Jumbo frame supported**
- **User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting**
- **Enhanced G.8032 Ring protection in 20ms for single ring**
  - *Support various ring/chain topologies, including enhanced ring and basic ring*
  - *Enhanced G.8032 ring configuration with ease*
  - *Cover multicast and data packets protection*
- **Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority**
- **IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP**
- **VLAN redundancy with 8 MSTI**
- **4K 802.1Q VLAN, Port based VLAN, GVRP**
- **Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console**
- **Support PXE to verify switch firmware with the latest or certain version**
- **DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server; Port based DHCP server; DHCP Option 66, DHCP Snooping; Basic IPv6 DHCP server**
- **Mac based DHCP server to assign IP address that includes dumb switches in DHCP network**
- **Bandwidth Control**
  - *Ingress packet filter and egress rate limit*
  - *Broadcast/multicast packet filter control*
- **Relay alarm output system events**
- **Miss-wiring avoidance**
  - *LED indicator*
- **Node failure protection**
  - *Ensure the switches in a ring to survive after power breakout is back*
  - *The status can be shown in NMS when each switch is back*
- **System Event Log, SMTP** Email alert and SNMP Trap for alarm support; 32 RMON counters**
- **Security**
  - *SSL/SSH v2/INGRESS ACL L2/L3*
  - *MAC Address Table: MAC address entries/Filter/static MAC-Port binding*
  - *Remote Admin: IP address security management to prevent unauthorized intruder.*
  - *TACACS+*
  - *Login Security: IEEE802.1X/RADIUS*
  - *HTTPS for secure access to the web interface*
- **Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application**
- **IGMP router port for Multicast protection**
- **IGMPv1,v2,v3 with Query mode for multimedia; GMRP**
- **Dual image firmware support**
- **MLD Snooping for IPv6 Multicast stream**
- **Factory reset button to restore setting to factory default**
- **Watchdog design to auto reboot switch when CPU is found dead**
- **Enhanced environmental monitoring for system**

actual input voltage, current, ambient temperature, and total power load

- Provides EFT/SURGE protection 2000 VDC for power line.
- Diagnostic including Ping / ARP table / DDM information
- Enhanced Storm Control
- Support PXE to verify switch firmware with the latest or certain version
- Optional L3Lite/L3* to be upgradable
- Supports 6000 VDC Ethernet ESD contact protection
- Configuration backup and restoration
  - *Supports text configuration file for system quick installation*
  - *USB slot to upload/download firmware by USB dongle*
- TFTP/HTTP firmware upgrade
- IP30 metal housing with rack-mount design
- DNV Type** Approved for Ships, Craft and Off-shore Platforms

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification

IEEE Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z Gigabit Fiber IEEE 802.3ae 10G Ethernet over Fiber IEEE 802.3x Flow Control Capability ANSI/IEEE 802.3 Auto-negotiation IEEE 802.1Q VLAN
	IEEE 802.1p Class of Service IEEE 802.1X Access Control IEEE 802.1D Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

	IEEE 802.1x User Authentication (Radius) IEEE 802.3at/af PoE (IPGS-L6424M-XSFP)
Switch Architecture	Back-plane (Switching Fabric): 128Gbps
Mac Address	16K MAC address table
Jumbo frame	10KB
Connectors	24 10/100/1000T RJ-45 with auto MDI/MDI-X function Mini-GBIC: 4 x 1G/2.5G/10G SFP+ auto-sensing socket with DDMI Console: Female DB-9 USB slot for upload/download config file
Network Cable	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable; EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair UTP/STP Cat5E/6 cable; 10GBaseT:4-pair STP Cat6/6A/7 cable
Optical Cable	**1Gbps:** Multi-mode: 0 to 550 m, 850 nm (50/125 µm); 0 to 2 km, 1310 nm (50/125 µm) Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 µm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 µm) **2.5Gbps** Multi-mode: 0 to 300 m, 850 nm (50/125 µm); Single mode: 0 to 2 km/ 15 km/ 40 km, 1310 nm (9/125 µm); 0 to 40 km/ 80 km/ 100km, 1550 nm (9/125 µm) **WDM 1Gbps:** Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 µm); 0 to 80 km, 1490 nm (9/125 µm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 µm) **WDM 2.5Gbps** Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km, 1310 /1550nm (9/125 µm); 0 to 80 km, 1490/1550 nm (9/125 µm) **10Gbps** Multi-mode: 0 to 300 m, 850 nm (OM3 50/125 µm); Single mode: 0 to 10 km/ 20 km, 1310 nm (9/125 µm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 µm) **WDM 10Gbps** Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 µm); 0 to 80km, 1490/1550 nm (9/125 µm)
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); PoE** : Link/Act (Green); Mini-GBIC: Link/Activity (Green)
Operating Humidity	5% ~ 95% (non-condensing)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F (-E model)
Storage Temperature	-40°C~85°C / -40°F~185°F
Power Supply	One + one** VAC/VDC input isolated 3000V 85V~264VAC/120~370VDC (HV model) One + one** VDC isolated 1600V 36~75VDC (LDC model) Dual input for 12V~56VDC (DC model) One + one** AC input AC85~264VAC (AC model) PoE power dual input for 48VDC (IPGS-L6424M-XSFP)
PoE Budget	720W (from separate PoE power supply) (54V input is recommended for PTZ or heater applications Higher PoE budget can be applied upon request. **
PoE pin assignment	RJ-45 port # 1~#24 support IEEE 802.3at/af End-point, Alternative A mode. (IPGS-L6424M-XSFP & PoE modules) Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
Power Consumption	28W
Case Dimension	Metal case. IP-30 440mm(W)x325mm(D)x44mm(H)
Weight	2.9 kgs
Installation	Rackmount Design
EMI & EMS	FCC Part 15, Subpart B ICES-003 Issue 7-2020 EN55035:2017/A11:2020 EN55032:2015/A11:2020 IEC 61000-6-2:2016 IEC 61000-6-4:2018 IEC 61000-4-2:2008 IEC 61000-4-3:2020 IEC 61000-4-4:2012 IEC 61000-4-5:2014+AMD1:2017 CSV IEC 61000-4-6:2013/COR1:2015 IEC 61000-4-8:2009 IEC 61000-4-11:2020 EN 61000-3-2:2014 EN 61000-3-3:2013
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
MTBF	191,002 hrs (standards IEC 62380)
Warranty	5 years

Software Specification

Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
SNMP MIB	RFC 1213 MIBII RFC 1158 MIB RFC 1157 SNMP MIB RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 Q-Bridge MIB* RFC 2819 RMON MIB Private MIB
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring enhanced mode) Support various ring/chain topologies Includes basic ring and enhanced ring Enhanced G.8032 ring configuration with ease Cover multicast & data packets protection
PoE Management	PoE Detection to check if PD hangs then restart the PD (IPGS-L6424M-XSFP)
Per Port PoE Status	On/ Off, voltage, current, watts, temperature (IPGS-L6424M-XSFP)
User friendly UI	■ Auto topology drawing ■ Topology demo ■ DDM threshold monitoring with dB values*** ■ Complete CLI for professional setting
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups
LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN
CDP	Cisco Discovery Protocol for topology mapping
Enhanced Environmental Monitoring	System status for actual input voltage, current , total power load and ambient temperature to be shown in GUI and sent alerting if any abnormal status
VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP, Protocol based VLAN; Subnet based VLAN
Spanning Tree	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP
Class of Service	Support IEEE802.1p class of service, per port provides 8 priority queues
Remote Admin	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder

Login Security	Supports IEEE802.1X Authentication/RADIUS
Port Mirror	Support 3 mirroring types: “RX, TX and Both packet”
Network Security	Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control for port based and MAC based authentication/static MAC-Port binding Ingress ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface TACACS+ for Authentication
IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP static route; 1024 multicast groups; IGMP router port; IGMP query; GMRP
MLD Snooping	Support IPv6 Multicast stream
Static multicast forwarding	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
Bandwidth Control	Support ingress packet filter and egress packet limit. The egress rate control supports all of packet type. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all types of packet. The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter and the egress packet limit.
Flow Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	Supports System log record and remote system log server
SMTP**	Supports SMTP** Server and 8 e-mail accounts for receiving event alert
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Protection	■ Miss-wiring avoidance ■ Node failure protection ■ Loop protection
SNMP Trap	Up to 10 trap stations; trap types including: ● Device cold start ● Authorization failure ● Port link up/link down ● DI/DO open/close ● Typology change(ITU ring) ● Power failure ● Environmental abnormal
PXE	PXE to verify switch firmware with the latest or certain version
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82 (Client & Server)/Port based DHCP; DHCP Snooping, DHCP Option 66; basic IPv6 DHCP server
Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network
Optional L3Lite/L3*	Lantech OS3 is optional upgradable to L3 Lite/L3* for future expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing.
DNS	Provide DNS client feature and support Primary and Secondary DNS server.
SNTP	Supports SNTP to synchronize system clock in Internet
Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade
Enhanced Storm Control	prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces
Configuration upload and download	Supports text configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB for mass backup, editing configuration and upgrade
Diagnostic	Support Ping, ARP table and DDM information
Dual Image Firmware	Support dual image firmware function

*Future release
**Optional
***Optional DDM SFP required

ORDERING INFORMATION

- **IGS-L6424M-XSFP-HV …….....P/N: 8380-200**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial Ethernet Switch Chassis; Built-in 1x isolated AC/DC 85~264VAC/120V~370VDC power conversion + 1x additional power socket; -20˚C to 60˚C
- **IGS-L6424M-XSFP-HV-E …….....P/N: 8380-20001**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial Ethernet Switch Chassis
  Built-in 1x isolated AC/DC 85~264VAC/120V~370VDC power conversion + 1x additional power socket; -40˚C to 75˚C
- **IGS-L6424M-XSFP-LDC …….....P/N: 8380-2001**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial Ethernet Switch Chassis
  Built-in x1 isolated DC 36~75VDC power supply + 1x additional power socket; -20˚C to 60˚C
- **IGS-L6424M-XSFP-LDC-E …….....P/N: 8380-20011**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial Ethernet Switch Chassis
  Built-in x1 isolated DC 36~75VDC power supply + 1x additional power socket; -40˚C to 75˚C
- **IGS-L6424M-XSFP-AC ……..P/N: 8380-2002**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial Ethernet Switch Chassis
  Built-in 1x AC 85~264VAC IEC320 power conversion + 1x additional power socket; -20˚C to 60˚C
- **IGS-L6424M-XSFP-AC-E …….....P/N: 8380-20021**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial Ethernet Switch Chassis
  Built-in 1x AC 85~264VAC IEC320 power conversion + 1x additional power socket; -40˚C to 75˚C
- **IGS-L6424M-XSFP-DC ……..P/N: 8380-2003**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial Ethernet Switch Chassis
  Built-in 1x DC 12~56VDC power supply + 1x additional power socket; -20˚C to 60˚C

- **IGS-L6424M-XSFP-DC-E ……..…….....P/N: 8380-20031**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial Ethernet Switch Chassis
  Built-in 1x DC 12~56VDC power supply + 1x additional power socket; -40˚C to 75˚C
- **IPGS-L6424M-XSFP-HV ……..…….....P/N: 8380-2004**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial PoE Ethernet Switch Chassis
  Built-in 1x isolated AC/DC 85~264VAC/120V~370VDC power conversion + 1x additional power socket + 1x 48VDC PoE power input; -20˚C to 60˚C
- **IPGS-L6424M-XSFP-HV-E ……..…….....P/N: 8380-20041**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial PoE Ethernet Switch Chassis
  Built-in 1x isolated AC/DC 85~264VAC/120V~370VDC power conversion + 1x additional power socket + 1x 48VDC PoE power input; -40˚C to 75˚C
- **IPGS-L6424M-XSFP-LDC ……..…….....P/N: 8380-2005**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial PoE Ethernet Switch Chassis
  Built-in 1x isolated DC 36~75VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -20˚C to 60˚C
- **IPGS-L6424M-XSFP-LDC-E ……..…….....P/N: 8380-20051**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial PoE Ethernet Switch Chassis
  Built-in 1x isolated DC 36~75VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -40˚C to 75˚C
- **IPGS-L6424M-XSFP-AC…….....P/N: 8380-2006**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial PoE Ethernet Switch Chassis
  Built-in 1x AC85~264VAC IEC320 power conversion + 1x additional power socket + 1x 48VDC PoE power input; -20˚C to 60˚C
- **IPGS-L6424M-XSFP-AC-E …….....P/N: 8380-20061**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial PoE Ethernet Switch Chassis
  Built-in 1x AC85~264VAC IEC320 power conversion + 1x additional power socket + 1x 48VDC PoE power input; -40˚C to 75˚C
- **IPGS-L6424M-XSFP-DC ……..…….....P/N: 8380-2007**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial PoE Ethernet Switch Chassis
  Built-in 1x DC 12~56VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -20˚C to 60˚C
- **IPGS-L6424M-XSFP-DC-E ……..…….....P/N: 8380-20071**
  24x GigaT + 4x1G/2.5G/10G SFP+ Industrial PoE Ethernet Switch Chassis
  Built-in 1x DC 12~56VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -40˚C to 75˚C

OPTIONAL ACCESSORIES

Software package

- **OS3 – L3L…..…… P/N: 9000-114**
  OS3 software platform with Layer 3 Lite functions (please check Lantech software data sheet for details)
- **OS3 – L3*…… P/N: 9000-116**
  OS3 software platform with Layer 3 functions (please check Lantech software data sheet for details)

Power

EOTH000705

Isolated Power conversion 85-264VAC, 120-370VDC 1.5A , 47-63HZ



EOTH000702

Isolated Power conversion 36-75VDC, 2.5A



EOTH000706

Isolated Power conversion 85-264VAC IEC320 socket, 1.5A , 47-63HZ



EOTH000704

Power Input Module 12-56VDC, 2.5A



DIN Rail Power

- **NDR-480 Series** 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-240 Series** 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-120 Series** 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)
- **NDR-75 Series** 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)

Mini GBIC (SFP)

- **8330-162-V1** MINI GBIC 1000SX (LC/0.5km) Transceiver
- **8330-163-V1** MINI GBIC 1000SX2 (LC/2km) Transceiver
- **8330-165-V1** MINI GBIC 1000LX (LC/10km) Transceiver
- **8340-0591-V1** MINI GBIC 1000LHX (LC/40km) Transceiver
- **8330-166-V1** MINI GBIC 1000XD (LC/50km) Transceiver
- **8330-169-V1** MINI GBIC 1000XD (LC/60km) Transceiver
- **8330-167-V1** MINI GBIC 1000ZX (LC/80km) Transceiver
- **8330-170-V1** MINI GBIC 1000EZX (120km) Transceiver
- **8330-168-V1** MINI GBIC 1000T (100m) Transceiver
- **8330-188-V1** LTSFP-1000BX-10KM Transceiver (WDM 1310)
- **8330-189-V1** LTSFP-1000BX-10KM Transceiver (WDM 1550)
- **8330-186-V1** LTSFP-1000BX-20KM Transceiver (WDM 1310)
- **8330-187-V1** LTSFP-1000BX-20KM Transceiver (WDM 1550)
- **8330-180-V1** LTSFP-1000BX-40KM Transceiver (WDM 1310)
- **8330-182-V1** LTSFP-1000BX-40KM Transceiver (WDM 1550)
- **8330-181-V1** LTSFP-1000BX-60KM Transceiver (WDM 1310)
- **8330-183-V1** LTSFP-1000BX-60KM Transceiver (WDM 1550)
- **8330-184-V1** LTSFP-1000BX-80KM Transceiver (WDM 1490)
- **8330-185-V1** LTSFP-1000BX-80KM Transceiver (WDM 1550)
- **8330-262D-V1** MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver
- **8330-263D-V1** MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver
- **8330-265D-V1** MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver
- **8330-193D-V1** 10G Base SFP+ SR, Multi-mode (LC/300m) Transceiver
- **8330-194D-V1** 10G Base SFP+ LR, Single-mode (LC/10km) Transceiver
- **8330-209D-V1** 10G Base SFP+ , Single-mode(10km) Transceiver (WDM 1270)
- **8330-210D-V1** 10G Base SFP+ , Single-mode(10km) Transceiver (WDM 1330)
- **8330-200D-V1** 10G Base SFP+ , Single-mode(20km) Transceiver (WDM 1270)
- **8330-201D-V1** 10G Base SFP+ , Single-mode(20km) Transceiver (WDM 1330)
- **8330-202D-V1** 10G Base SFP+ , Single-mode(40km) Transceiver (WDM 1270)
- **8330-203D-V1** 10G Base SFP+ , Single-mode(40km) Transceiver (WDM 1330)

All SFPs ended with D are with Diagnostic function

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